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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/663,791	09/17/2003	Emanuele Jones	3450-Z	3778	
Law Office of .	7590 06/22/2007 Law Office of Jim Zegeer			EXAMINER	
Suite 108			FOUD, HICHAM B		
801 North Pitt Street Alexandria, VA 22314			ART UNIT	PAPER NUMBER	
			2616		
		·			
			MAIL DATE	DELIVERY MODE	
	·		06/22/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)					
	10/663,791	JONES ET AL.					
Office Action Summary	Examiner	Art Unit					
	Hicham B. Foud	2616					
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet wit	th the correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC 36(a). In no event, however, may a re will apply and will expire SIX (6) MON' c, cause the application to become AB	CATION.  Apply be timely filed  THS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).	•				
Status	·						
1)⊠ Responsive to communication(s) filed on <u>17 S</u>	eptember 2003.						
2a) ☐ This action is FINAL. 2b) ☑ This	This action is FINAL. 2b)⊠ This action is non-final.						
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D.	. 11, 453 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-18</u> is/are pending in the application							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-6,10,12-15,17 and 18</u> is/are rejecte	Di⊠ Claim(s) <u>1-6,10,12-15,17 and 18</u> is/are rejected.						
7) $\boxtimes$ Claim(s) <u>7-9,11 and 16</u> is/are objected to.							
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine	er.						
10)⊠ The drawing(s) filed on 17 September 2003 is/	are: a)⊠ accepted or b)□	] objected to by the Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct	tion is required if the drawing(	s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Ex	xaminer. Note the attached	Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. §	119(a)-(d) or (f).					
1. Certified copies of the priority document	s have been received.						
2. Certified copies of the priority document							
3. Copies of the certified copies of the prio	rity documents have been	received in this National Stage					
application from the International Burea	u (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list	of the certified copies not	received.					
Attachment(s)							
1) Notice of References Cited (PTO-892)		ummary (PTO-413) )/Mail Date	•				
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO/SB/08)</li> </ul>		oformal Patent Application					
Paper No(s)/Mail Date <u>05/26/2005</u> .	6)	_·					

### **DETAILED ACTION**

### Claim Objections

1. Claims 1-18 are objected to because of the following informalities:

For claims 1-18, the terms such as TTL, NAT and VPN have to be written in full.

Appropriate correction is required.

### Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 10, 11 and 18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

For claim 10, the recitation "wherein each upstream marking station is assigned k values V.sub.i [V.sub.1, V.sub.2, . . . V.sub.k] and k associated ratios R.sub.i [R.sub.1, R.sub.2, . . . R.sub.k], where the sum of all k ratios R.sub.i is 100%" is vague and unclear because it is not known what "k", "V" and "R" are, and the relationship between the "V" values and the "R" values. Same problem occurs in claim 11 for the term "N".

Regarding claim 18, the phrase "such as" renders the claim indefinite because it is unclear whether the limitations following the phrase are part of the claimed invention. See MPEP § 2173.05(d).

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-6, 12-15, 17 and 18 are rejected under 35 U.S.C. 102(e) as being anticipated by Soppera (US 2003/0172289).

For claims 1 and 12, Soppera discloses a method and a system of determining, in a communications network, an upstream station, among several other candidates, traversed by a packet arriving at a downstream station, comprising the steps of: a) marking the TTL field of the packet flow arriving at the upstream station, in a manner that uniquely identifies the upstream station among all the other concurrently marking upstream stations (see page 4 paragraph 0057 lines 1-2; marking is carried out in the TTL field); b) receiving and identifying at the downstream station a marked packet flow (see page 4 paragraph 0057 lines 7-8; thus it will recognize packets coming by means of a characteristic TTL); c) determining, depending upon the TTL field of the marked packet flow received, that said packet flow traversed the upstream station (see page 4 paragraph 0057 lines 10-12; The victim knows the distance to the selected router, from information in the authenticated traceback packets).

For claim 2, Soppera discloses a method wherein step c) involves comparing the value of the TTL field of packets in a flow to which said packets belong with and without

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marking being performed, thereby enabling the manner of marking, which identifies the upstream station, to be determined (see page 4 paragraph 0057 lines 7-8; thus it will recognize packets coming by means of a characteristic TTL).

For claims 3 and 14, Soppera discloses a method and a system wherein packets are marked at each selected station by a single static value assigned by an external entity (see page 4 paragraph 0057 lines 3-4; the TTL information is set by the selected router and lines and lines 6-7; The victim specifies this number at the router; inherently the specification of the number can be statically by saving that number in the router by the victim computer).

For claims 4 and 13, Soppera discloses a method and a system wherein packets are marked at each selected station by a single dynamic value assigned by an external entity (see page 4 paragraph 0057 lines 3-4; the TTL information is set by the selected router and lines and lines 6-7; The victim specifies this number at the router; inherently the specification of the number can be dynamically by choosing that number specifically and not randomly).

For claim 5, Soppera discloses a method wherein packets are marked at each selected station by plural dynamic values and associated marking scheme assigned by an external entity (see page 4 paragraph 0057 lines 7-10; thus it will recognise packets coming by means of a characteristic TTL, equal to the specified initial TTL minus the number of hops the router is away.

For claim 6, Soppera discloses a method wherein the application of a value to the TTL field is one of add, subtract and replace (see page 4 paragraph 0057 lines 7-10;

thus it will recognise packets coming by means of a characteristic TTL, equal to the specified initial TTL minus the number of hops the router is away.

For claim 15, Soppera discloses a system wherein the upstream station to mark packets is selected by a group of network edge stations marking concurrently (see page 4 paragraph 0057 lines 15-16; the victim may characterize the marked traffic by a range of TTL values)

For claim 17, Soppera discloses a system wherein the downstream station is one of an edge router; a last mile router; receiving device and a network management system (see Figure 1 "Core Router").

For claim 18, Soppera discloses a system wherein the upstream station, also referred to as marking station, is one of a generic router; a core router; an edge router; a single network interface; a last mile router; a network appliance such as a proxy, a firewall, a NAT box, a VPN device(see Figure 1 "Core Router").

## Allowable Subject Matter

4. Claim 10 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Claims 7-9, 11 and 16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

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5. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure. See PTO-892.

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Hicham B. Foud whose telephone number is 571-270-

1463. The examiner can normally be reached on Monday - Thursday 10-3 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Chau T. Nguyen can be reached on 571-272-3126. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Hicham Foud

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SUPERVISORY PATENT EXAMINER

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